

## Academic Press Dictionary of Science and Technology

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## cupric cyan

cumulonimbus [kyoom ya lo nim bas] Meteorology, u principal cloud type composed of ice crystals and appearing as mountains or huge towers with smooth, fibrous, or striated and almost flattened upper portions, which often spread out in the form of an anvil at heights of at least 35,000 feet.

cumulonimbus calvus Meteorology. any highly developed cumuliform cloud that produces lightning, thunder, or hall, although the top shows no evidence of transformation into ice.

cumulonimbus capillatus Meteorology, a species of cumulonimbus cloud characterized by distinct cirriform parts in the upper portion, usually in the form of a disordered anvil plume with wispy extensions, and usually accompanied by a shower or thunderstorm.

cumulus [kyoom'ya las] Meteorology, a principal cloud type in the form of dense, detached elements with sharp nonfibrous outlines that develop vertically and appear as rising mounds; domes, or towers. The sunlit portions are brilliant white, and the bases are relatively dark and nearly horizontal; any precipitation usually occurs as showers. Geochemistry, an accumulation of mineral crystals that precipitated from a magma and settled to form layers without further modification.

cumulus congestus Mereorology, a species of cumulus cloud having sharp outlines and sometimes great vertical development, characterized by a cauliflower or tower aspect of large size or by high towers with tops of cloudy puffs. Also, Towering Cumulus.

cumulus humulis Meteorology, a species of cumulus cloud characterized by a generally flattened appearance and a small vertical development due to restriction by a temperature inversion in the atmosphere. Also, FAIR-WEATHER CUMULUS.

cumulus mediocris Meteorology, a species of cumulus cloud with moderate vertical development and indistinct upper protuberances of a cauliflower-type aspect; it does not produce precipitation but often develops into cumulus congestus and cumulonimbus clouds.

cumulus cophorus Histology, a layer of follicular cells surrounding the developing occyte in an ovarian follicle.

CUN Aviation, the airport code for Cancun, Mexico.

cuneate [kyoon'e at] Biology, fanning out from a pointed base; wedgeshaped, such as some leaves or insect wings. Anatomy, any of three wedge-shaped tarsal bones located in the instep of the foot or ankle.

cuneiform [kyoo ne's form] Archaeology, the earliest known system of writing, consisting of triangular markings pressed on a clay tablet; developed by the Sumerians in about 3000 BC. Biology. see CUNEATE. (From a Latin term meaning "wedge-shaped.")

cunife Materials, a copper-nickel-iron alloy with a high value of remnant magnetization and of coercive field, used where hard magnetic materials are required.

Cunnersdorf twin law Crystallography, a rarely occurring relationship between normal twin crystals in feldspar in which the twin plane is

Cunninghamellaceae Mycology, a family of fungi belonging to the order Mucorales, which lives primarily off of nonliving organic matter in soil and dung.

cunnus Anatomy, the female pudendum; the vulva.

Cunonlaceae Borany, a family of strongly tanniferous trees and shrubs of the order Rosales that often accumulate aluminum and are characterized by opposite or sometimes whorled leaves, small and usually perfect flowers, and winged or hairy seeds.

cup any hollow, cylindrical component that is closed at one end; specific uses include: Metrology, a unit of capacity, equal to 8 fluid ounces or one-half pint, Also, cupful. Mathematics. a set union, denoted U, a Boolean operation. Metallurgy, a cylindrical shell with one open end, fabricated during the initial stages of a deep-drawing operation.

cup-and-ball joint Geology, see BALL-AND-SOCKET JOINT.

cup anemometer Engineering, a device that measures wind speed, composed of three or four vanes with cuplike structures on their ends; wind speed is determined by the rate at which the vanes revolve around a central shaft.

cup barometer Engineering, an instrument that measures atmospheric pressure, composed of a glass tube that sits in a cup, with both the tube and the cup containing mercury.

cup-case thermometer Engineering, a thermometer in which the material to be measured is held in a cup container into which the bulb of the thermometer is immersed.

cup core Electromagnetism, a core that serves to shield the exterior of a coil by enclosing it.

cup crystal Hydrology, a form of depth hoar having the shape of a hollow hexagonal cup with stepped surfaces.

Cupedidae Invertebrate Zoology, a family of coleopterans, the lated beetles, in the suborder Archostemata.

cupel Metallurgy, a refractory container used in cupellation. cupellation Metallurgy, a refining process for gold and silver, h oxidation of the lead containing these precious metals.

cupferron Organic Chemistry. CoH, N(NO)ONH, creamy-white tals, soluble in water and alcohol; melts at 164-165°C; used as lytical reagent for separating copper and iron from metals.

cup fracture Metallurgy, a type of fracture that has a central de sion. Also, cup-and-cone fracture.

cup fungi Mycology, fungi belonging to the class Discomyceu are shaped like cups, especially those of the family Pezizales.

cup lichens Borany, any of several lichens with cup-shaped & bodies or stalks. such as various species of Cladonia. Also, cup in cupola [kyoop' a la Architecture. a small dome raised on a circular often set atop a roof. Metallurgy, a furnace that is similar to a blanch nace, used especially to melt cast iron. Geology, a dome-shaped p tion of the igneous rock of a batholith.

cupola drop Metallwgy, the residual material that is dropped cupola furnace after the molten metal is poured out.

cupped pebble Geology, a small sedimentary particle that has hollowed out as a result of being subjected to solution.

cup product Mathematics, a product of elements of the deRham's mology groups on a manifold M, denoted  $\cup$  and given by  $[\omega]$  $[\omega \wedge \eta]$ , where  $[\omega] \in H^k(M)$ ,  $[\eta] \in H^l(M)$ , and  $[\omega \wedge \eta] \in H^{k+l}(M)$ . gives the deRham cohomology a ring structure. A corresponding uct can be defined on the cohomology groups of any topological cupr- a combining form meaning "copper," as in cuprammonium,

cuprammonium rayon Textiles. a rayon fabric made from re ated cellulose treated in a solution of copper sulfate and ammonium cupreine Organic Chemistry. C19H22N2O2, a colorless crystalline slightly soluble in water and soluble in alcohol; melts at 202°C; medicine. Also, HYDROXYCINCHONIDINE.

cupreous Chemistry, of, relating to, or containing copper.

Cupressaceae Botany, a family of evergreen, resiniferous shrub trees of the order Pinatae, characterized by small staminate and pin cones with opposite or whorled scales: the pistillate cones become ery, woody, or berrylike at maturity; includes species of junipers. cuprl- a combining form meaning "copper," as in cuprite.

cupric [koo prik; kyoo prik] Chemistry. 1. of or relating to cop describing various compounds of copper, especially those in which element has a valence of two.

cupric acetate basic Organic Chemistry. Cu(CH3COO)2'CuO4 a blue or blue-green powder, slightly soluble in water and alcohol as a raw material to make Paris green. Also, BLUE VERDIGRIS, CE AERUGO.

cupric arsenate Inorganic Chemistry. Cu3(AsO2)2.4H Cu<sub>5</sub>H<sub>2</sub>(AsO<sub>4</sub>)<sub>4</sub>·2H<sub>2</sub>O, a toxic bluish powder, insoluble in water at uble in dilute acids; used in insecticides and fungicides.

cupric arsenite Inorganic Chemistry. CuHAsO3 or Cu3(AsO3)2 a fine, toxic, light green powder, insoluble in water; used in pa pigments, and as a wood preservative. Also, copper ARSENTE, d ORTHOARSENITE, SCHEELE'S GREEN.

cupric bromide Inorganic Chemistry, CuBr2, a deliquescent powder or crystals, very soluble in water and soluble in alcohol tone; melts at 498°C; used in photography, as a brominating battery electolytes, and as a wood preservative.

cupric carbonate Inorganic Chemistry. Cu2(OH)2CO2, a toxic powder, soluble in acids and insoluble in water and alcohol: poses at 200°C; used in pigments, fireworks, and insecricides. various other industrial purposes. Also, (BASIC) COPPER CARBONAL TIFICIAL MALACHITE, MINERAL GREEN.

cupric chloride Inorganic Chemistry, 1. CuCl,, a brownish-yell groscopic powder, soluble in water, melts at 620°C and decomp cuprous chloride at 993°C. 2. CuCl<sub>2</sub> 2H<sub>2</sub>O, the dihydrate form. green deliquescent crystals; loses water at 100°C; has a wide ve uses, as in fungicides, disinfectants, preservatives, and purifiers

a mordant, catalyst, and pigment. cupric chromate Inorganic Chemistry. CuCrO, 2CuO 2H2O lowish-brown powder that is soluble in nitric acid and insol water: loses its water at 260°C; a known carcinogen: used as a wood preservative, and fungicide.

cupric cyanide Inorganic Chemistry, Cu(CN)2, a poisonous, yellowish-green powder, soluble in acids and alkalis and insolu water; used in copper electroplating.